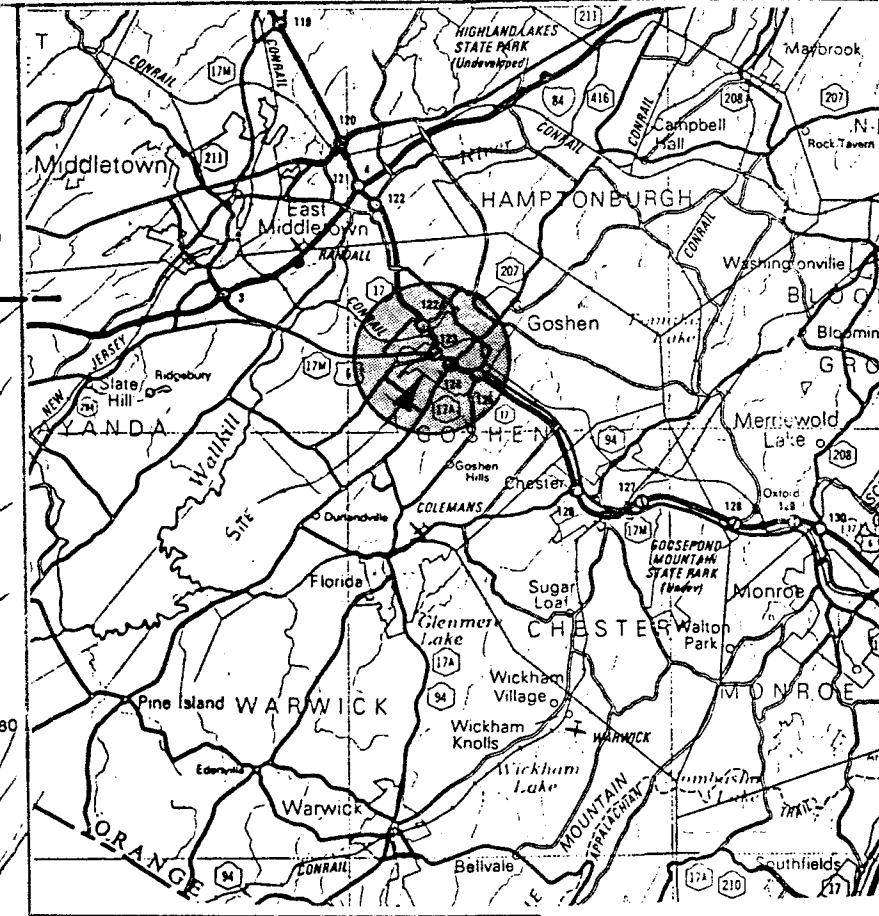


PROJECT: FRESHWATER WETLAND MITIGATION
 PURPOSE: ENVIRONMENTAL ENHANCEMENT
 AT: SORRENTO DRIVE - INC. VILLAGE OF GOSHEN
 ORANGE COUNTY - STATE OF NEW YORK
 APPLICANT: ALLERTON HOUSE DEFINED BENEFIT PENSION PLAN
 PREPARED BY: LAND USE ECOLOGICAL SERVICES INC.
 DATE: 11-12-99, 12-21-99, 1-28-00

PLAN VIEW

SCALE: 1" = 100'

PROPOSED DRAINAGE INTERCEPT STRUCTURE
 APPROX. 270' LINEAR FEET OF 12" DIA. CORRUGATED
 PLASTIC PERFORATED DRAINAGE PIPE (TYP.) TO BE
 INSTALLED BELOW GRADE AND SURROUNDED WITH
 CRUSHED 4" - 6" STONE. CAPTURED RUNOFF TO FLOW
 TO DESIGNATED WETLAND FACILITIES



LOCATION MAP
 NEW YORK STATE ATLAS
 N.Y.S. DEPT. OF TRANSPORTATION
 PAGE 36 SCALE: 1" = 250,000'

*NOTE: SEE PROPOSED SITE PLAN (GOSHEN FIRE DEPT.)
 GOSHEN, NEW YORK FOR DEVELOPMENT / CONSTRUCTION
 CONFIGURATION & LAYOUT (ROBERT E. HABIG ARCHITECT)
 NINETY-ONE NORTH STREET, MIDDLETOWN, N.Y. 10940

NOTE: WETLAND BOUNDARY BASED ON SURVEY BY EUSTANCE &
 HOROWITZ P.C. ENTITLED: JURISDICTIONAL DETERMINATION
 WETLANDS FOR ALLERTON HOUSE, DEFINED BENEFIT & PENSION PLAN
 DATED: NOVEMBER 30, 1998

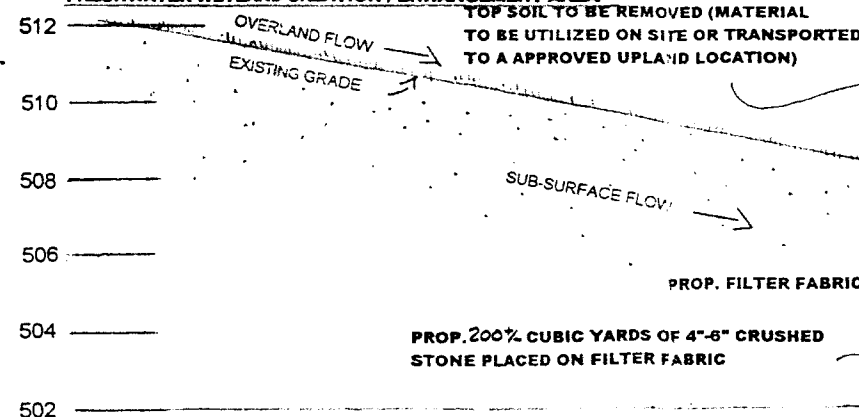
TOTAL LOT AREA (LOT #3) = 217,800 SQ.FT.
 TOTAL WETLAND AREA (LOT #3) = 118,657.44 SQ.FT.
 TOTAL FRESHWATER WETLAND AREA FILLED / DISTURBED = 58,025 SQ.FT.
 TOTAL FRESHWATER WETLAND AREA CREATED (LOTS 1 & 2) = 42,250 SQ.FT.
 TOTAL FRESHWATER WETLAND AREA ENHANCED (LOTS 1 & 2) = 37,900 SQ.FT.
 TOTAL FRESHWATER WETLAND AREA CREATED / ENHANCED = 80,150 SQ.FT.

- KEY:**
- = EXISTING CONTOURS / ELEVATION
 - - - = EXISTING FRESHWATER WETLANDS LINE
 - = PROPOSED CONTOURS / ELEVATION
 - x - x - = PROPOSED SILT FENCE & STAKED HAYBALE LOCATION (LIMIT OF DISTURBANCE/CONSTRUCTION)
 - [Hatched Box] = PROPOSED 20'± WIDE FRESHWATER WETLAND BUFFER BAND ALONG SLOPE EDGE (APPROX. 10,800 SQ.FT.±) TO BE PLANTED UTILIZING SHRUB SPECIES ACCORDING TO SPECS.
 - [Dotted Box] = PROPOSED FRESHWATER WETLAND CREATION / ENHANCEMENT (APPROX. 80,150 SQ.FT.±) TO BE SEEDING UTILIZING NATIVE WETLAND PLANT SPECIES ACCORDING TO SPECS.

TYPICAL SECTION VIEW

SCALE: 1" = 5'

LANDS N/F ORANGE COUNTY INDUSTRIAL
 T.M.# 122-1-1,2
NOTE: PRIOR TO CONSTRUCTION / FILLING & GRADING 1,720+/- CUBIC YARDS OF HYDRIC SOILS FROM A LAYER 8" MAX. DEPTH TO BE EXCAVATED / SALVAGED WITHIN DESIGNATED WETLAND DISTURBANCE AREA AND TRANSPORTED TO PROPOSED FRESHWATER WETLAND CREATION / ENHANCEMENT AREA.
 TOP SOIL TO BE REMOVED (MATERIAL TO BE UTILIZED ON SITE OR TRANSPORTED TO A APPROVED UPLAND LOCATION)



PROPOSED DRAINAGE EASEMENT

PROPOSED SWALE LOCATION

PROPOSED SILT FENCE LOCATION DURING DRAINAGE INTERCEPTION STRUCTURE INSTALLATION

PROPOSED DRAINAGE INTERCEPTION STRUCTURE
 APPROX. 270' LINEAR FEET OF 12" DIA. CORRUGATED
 PLASTIC PERFORATED DRAINAGE PIPE (TYP.) TO BE
 INSTALLED BELOW GRADE AND SURROUNDED WITH
 CRUSHED 4" - 6" STONE. CAPTURED RUNOFF TO FLOW
 TO DESIGNATED WETLAND FACILITIES

PROPOSED 12" DIA. CORRUGATED PLASTIC PERFORATED DRAINAGE PIPE (TYP.)

PROP. 200% CUBIC YARDS OF 4"-6" CRUSHED STONE PLACED ON FILTER FABRIC

PROP. FILTER FABRIC

SUB-SURFACE FLOW

OVERLAND FLOW
 EXISTING GRADE



NOTE: 1,700 CUBIC YARDS OF SALVAGED HYDRIC SOILS TO BE UTILIZED AS A 6" THICK LAYER OF TOP SOIL WITHIN PROPOSED WETLAND CREATION / ENHANCEMENT AREA. TRANSPORTED MATERIAL TO BE SPREAD OVER GRADE TO MEET PROPOSED CONTOURS SHOWN (80,150 SQ.FT.±) AT 6" THICK

PROP. SILT FENCE / STAKED HAYBALE LOCATION

EXISTING PIPE LOCATION TO REMAIN UNDISTURBED
 INV. EL. 483.96

PROPOSED 20'± WIDE FRESHWATER WETLAND BUFFER BAND ALONG SLOPE EDGE (APPROX. 10,800 SQ.FT.±) TO BE PLANTED UTILIZING SHRUB SPECIES ACCORDING TO SPECS.

PROPOSED FRESHWATER WETLAND CREATION / ENHANCEMENT AREA (APPROX. 80,150 SQ.FT.±) TO BE SEEDING UTILIZING NATIVE WETLAND PLANT SPECIES ACCORDING TO SPECS.

NOTE: TOPOGRAPHIC INFORMATION / DATA REFERENCED FROM SURVEY DATED: NOVEMBER 30, 1998 JURISDICTIONAL DETERMINATION WETLANDS (EUSTANCE & HOROWITZ, P.C.) P.O. BOX 42 CIRCLEVILLE, N.Y. 10919

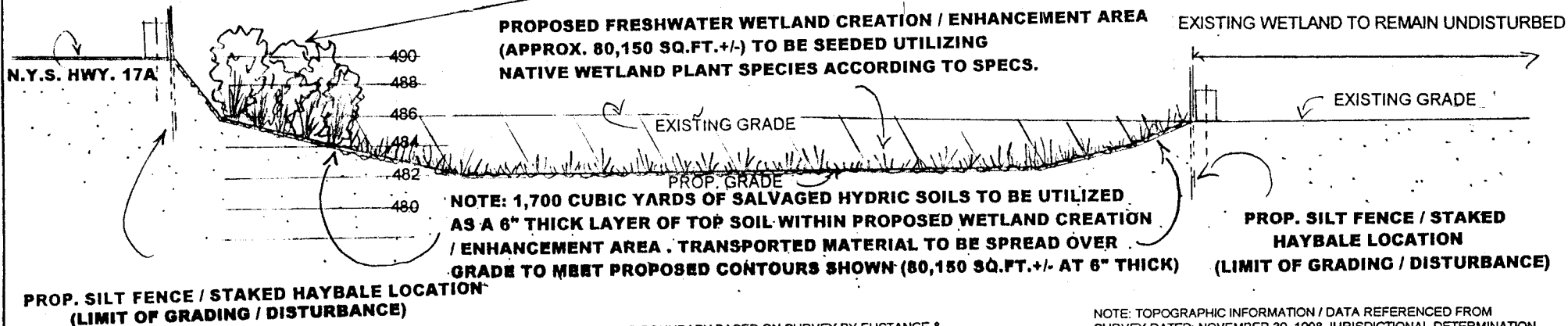
LAND USE ECOLOGICAL SERVICES, INC.
 2576 SOUND AVENUE
 BAITING HOLLOW, NY 11933

PROPOSED: FRESHWATER WETLAND MITIGATION
 PURPOSE: ENVIRONMENTAL ENHANCEMENT
 AT: SORRENTO DRIVE - INC. VILLAGE OF GOSHEN
 ORANGE COUNTY - STATE OF NEW YORK
 APPLICANT: ALLERTON HOUSE DEFINED BENEFIT PENSION PLAN
 PREPARED BY: LAND USE ECOLOGICAL SERVICES INC.
 DATE: 11-12-99, 12-21-99, 1-28-00

SECTION VIEW

SCALE: 1" = 30' HOR.
 1" = 10' VERT.

PROPOSED 20'+/- WIDE FRESHWATER WETLAND
 BUFFER BAND ALONG SLOPE EDGE (APPROX. 10,800 SQ.FT.+/-)
 TO BE PLANTED UTILIZING SHRUB SPECIES ACCORDING TO SPECS.



NOTE: WETLAND BOUNDARY BASED ON SURVEY BY EUSTANCE &
 HOROWITZ P.C. ENTITLED, JURISDICTIONAL DETERMINATION
 WETLANDS FOR ALLERTON HOUSE, DEFINED BENEFIT & PENSION PLAN
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 10919

PLANTINGS AND DETAILS

PLANTING SPECIFICATIONS

WETLAND/BUFFER SPECIES

The following shrub species to be one gallon container, nursery
 grown stock and planted on 6' centers in 20' band along wetland
 edge

SPICE BUSH (*Lindera benzoin*)
 RED OSIER DOGWOOD (*Cornus alnifolia*)
 COAST PEPPERBUSH (*Clethra alnifolia*)
 GREY DOGWOOD (*Cornus racemosa*)

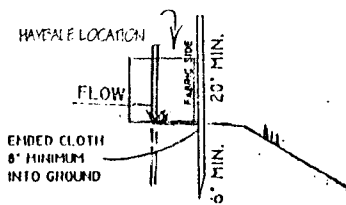
ARROWOOD (*Virburnum dentatum*)

WETLAND SEED MIXTURE

The following seed mixture to be planted at 10 lbs. per acre rate
 (ounces per pound of mix)

2.5 LURID SEDGE
 2.5 FOX SEDGE
 2.0 RATTLE SNAKE GRASS
 0.5 RICE CUTGRASS
 1.0 DARK GREEN BULRUSH
 3.0 CATERPILLAR/FRINGE SEDGE

(*Avena sativa*) 2.5 MANNA GRASS (*Glyceria striata*)
 (*Carex lurida*) 0.5 SOFT RUSH (*Juncus effusus*)
 (*Carex vulpinoidea*) 1.5 WOOL GRASS (*Scirpus cyperin.*)
 (*Glyceria canadensis*)
 (*Leersia oryzoides*)
 (*Scirpus cyperinus*)
 (*Carex crinita*)



SILT FENCE DETAIL

NOT TO SCALE

